

# AKumar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28  
papers

495  
citations

13  
h-index

22  
g-index

28  
ext. papers

574  
ext. citations

1.5  
avg, IF

4.09  
L-index

#	Paper	IF	Citations
28	Experimental investigation of WEDM process through integrated desirability and machine learning technique on implant material. <i>Journal of the Mechanical Behavior of Materials</i> , <b>2021</b> , 30, 38-48	1.9	3
27	Multi-objective optimization and Surface Morphology of M-42 AISI Steel Using Normal and Cryo-treated Brass Wire in Wire Cut EDM. <i>Arabian Journal for Science and Engineering</i> , <b>2021</b> , 46, 2721-2748	2.5	2
26	Preliminary Investigation of Wire Cut EDM on Polycrystalline Silicon Ingot. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 813-824	0.4	
25	A novel approach of GEF and GA for the optimization of multi-objective wire EDM process during the machining of DC53 super alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , <b>2021</b> , 235, 1119-1131	1.5	2
24	Investigation of biocompatible implant material through WEDM process using RSM modeling hybrid with the machine learning algorithm. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2021</b> , 46, 1	1	2
23	Modeling and Optimization of Turning Process Using White Coconut Oil as Metalworking Fluid Through Desirability Function. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 669-685	0.4	0
22	Multi-response optimization of magnetic field assisted EDM through desirability function using response surface methodology. <i>Journal of the Mechanical Behavior of Materials</i> , <b>2020</b> , 29, 19-35	1.9	3
21	Mathematical Modeling and Optimization of Wire Electric Discharge Machining Parameters on Inconel 825 Using Desirability Method. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2020</b> , 17, 2441-2450	0.3	
20	Investigation of machining characterization for wire wear ratio & MRR on pure titanium in WEDM process through response surface methodology. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , <b>2018</b> , 232, 108-126	1.5	13
19	Mathematical modeling and analysis of WEDM machining parameters of nickel-based super alloy using response surface methodology. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2017</b> , 42, 981-1005	1	29
18	Investigation of wire electrical discharge machining of ZrSiO <sub>4</sub> p/Al 6063 MMC. <i>International Journal of Machining and Machinability of Materials</i> , <b>2016</b> , 18, 392	0.7	5
17	Surface crack density and recast layer thickness analysis in WEDM process through response surface methodology. <i>Machining Science and Technology</i> , <b>2016</b> , 20, 201-230	2	49
16	Investigation of Micro-Cracks Susceptibility on Machined Pure Titanium Surface in WEDM Process. <i>Journal for Manufacturing Science and Production</i> , <b>2016</b> , 16, 123-139		2
15	Experimental Investigation of Multiple Quality Characteristics of Laser Beam Machined Surface using Integrated Taguchi and Fuzzy Logic Method. <i>Journal for Manufacturing Science and Production</i> , <b>2016</b> , 16, 189-199		2
14	Multiple performance characteristics optimization for Al 7075 on electric discharge drilling by Taguchi grey relational theory. <i>Journal of Industrial Engineering International</i> , <b>2015</b> , 11, 459-472	2.6	44
13	Semi-empirical model on MRR and overcut in WEDM process of pure titanium using multi-objective desirability approach. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2015</b> , 37, 689-721	2	30
12	Material Removal Rate, Electrode Wear Rate, and Surface Roughness Evaluation in Die Sinking EDM with Hollow Tool through Response Surface Methodology. <i>International Journal of Manufacturing Engineering</i> , <b>2014</b> , 2014, 1-16		19

11	Surface integrity and material transfer investigation of pure titanium for rough cut surface after wire electro discharge machining. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2014</b> , 228, 880-901	2.4	14
10	MICROSTRUCTURE ANALYSIS AND MATERIAL TRANSFORMATION OF PURE TITANIUM AND TOOL WEAR SURFACE AFTER WIRE ELECTRIC DISCHARGE MACHINING PROCESS. <i>Machining Science and Technology</i> , <b>2014</b> , 18, 47-77	2	32
9	Multi-response optimization of process parameters based on response surface methodology for pure titanium using WEDM process. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2013</b> , 68, 2645-2668	3.2	118
8	Investigation of machining parameters and surface integrity in wire electric discharge machining of pure titanium. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2013</b> , 227, 972-992	2.4	39
7	Effect of machining parameters on dimensional deviation in wire electric discharge machining process using pure titanium. <i>Journal of Engineering &amp; Technology</i> , <b>2013</b> , 3, 105		5
6	Experimental Investigation on Material Transfer Mechanism in WEDM of Pure Titanium (Grade-2). <i>Advances in Materials Science and Engineering</i> , <b>2013</b> , 2013, 1-20	1.5	28
5	Investigation of microstructure and element migration for rough cut surface of pure titanium after WEDM. <i>International Journal of Microstructure and Materials Properties</i> , <b>2013</b> , 8, 343	0.4	13
4	Parametric Effect on Wire Breakage Frequency and Surface Topography in WEDM of Pure Titanium <b>2013</b> , 51-56		18
3	An Investigation into Machining Characteristics of Commercially Pure Titanium (Grade-2) Using CNC WEDM. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 159, 56-68	0.3	22
2	Investigation of crack density, white layer thickness, and material characterization of biocompatible material commercially pure titanium (grade-2) through a wire electric discharge machining process using a response surface methodology. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> 095440892110287	1.5	0
1	Investigation and Optimization of Parameters in Micro-Finishing of Hybrid Al/SiC/B4C MMCs by Novel MAFM Process through RSM. <i>Silicon</i> , 1	2.4	1